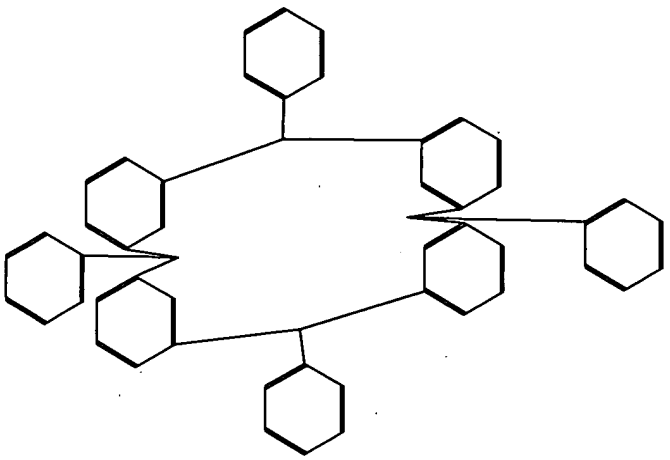
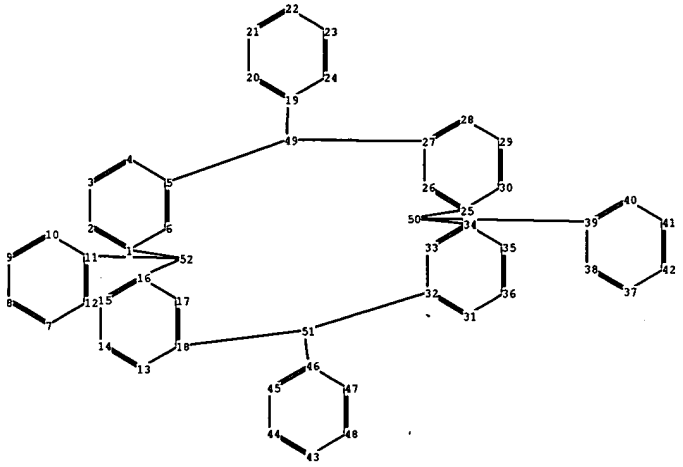
C:\Program Files\Stnexp\Queries\060.str





ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
48 49 50 51 52
chain bonds :
11-52 19-49 39-50 46-51
ring bonds :
1-2 1-6 1-52 2-3 3-4 4-5 5-6 5-49 7-8 7-12 8-9 9-10 10-11 11-12 13-14
13-18 14-15 15-16 16-17 16-52 17-18 18-51 19-20 19-24 20-21 21-22 22-23 23-24
25-26 25-30 25-50 26-27 27-28 27-49 28-29 29-30 31-32 31-36 32-33 32-51 33-34
34-35 34-50 35-36 37-38 37-42 38-39 39-40 40-41 41-42 43-44 43-48 44-45 45-46
46-47 47-48
exact/norm bonds :
1-52 5-49 16-52 18-51 25-50 27-49 32-51 34-50
exact bonds :
11-52 19-49 39-50 46-51
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-18 14-15
15-16 16-17 17-18 19-20 19-24 20-21 21-22 22-23 23-24 25-26 25-30 26-27 27-28
28-29 29-30 31-32 31-36 32-33 33-34 34-35 35-36 37-38 37-42 38-39 39-40 40-41
41-42 43-44 43-48 44-45 45-46 46-47 47-48

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom
32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 40:Atom 41:Atom
42:Atom 43:Atom 44:Atom 45:Atom 46:Atom 47:Atom 48:Atom 49:Atom 50:Atom 51:Atom
52:Atom

L5 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:755107 CAPLUS
DOCUMENT NUMBER: 137:272563
TITLE: Colorimetric and **fluorimetric** analysis of carbohydrates
INVENTOR(S): Strongin, Robert M.; Cabell, Larry Allen; St. Luce, Nadia; Lewis, Patrick T.; He, Ming; Escobedo Cordova, Jorge O.; Davis, Claude Joseph
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 16 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

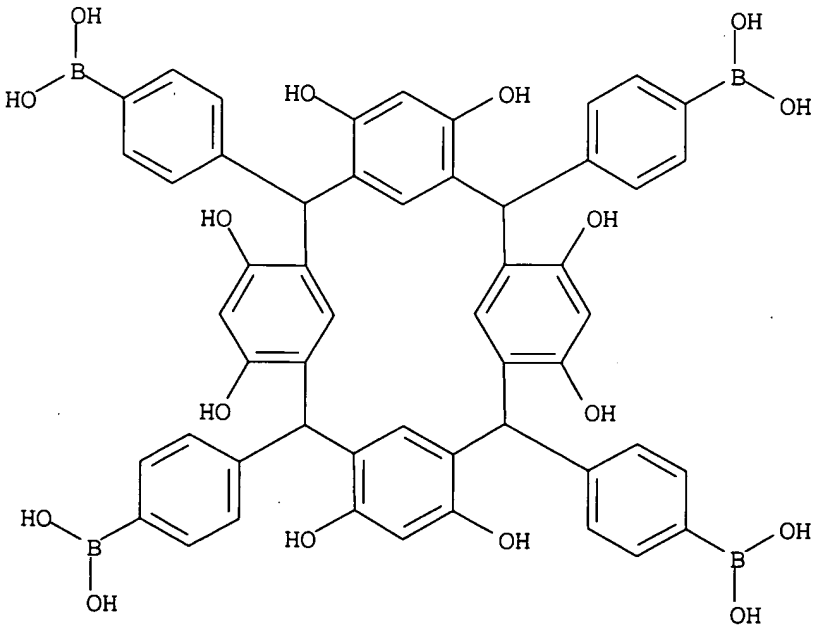
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002142475	A1	20021003	US 2001-778158	20010205 <--
US 6534316	B2	20030318		
PRIORITY APPLN. INFO.:			US 2001-778158	20010205

OTHER SOURCE(S): MARPAT 137:272563

AB Methods are disclosed for the simple, rapid, and selective colorimetric detection of carbohydrates, including fructose, glucose, sialic acid, and oligosaccharides. There is no need for any prior hydrolysis or other chemical modification or of the analytes. Resorcinarenes, xanthene dyes, and related compds., formally produced by the reaction of 2 equiv of resorcinol and a suitable electrophilic condensation partner, are used as chromophores or **fluorophores** for the detection of sugars and other carbohydrates.

IT **194935-23-4 195008-64-1**
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(colorimetric and **fluorimetric** anal. of carbohydrates)

RN 194935-23-4 CAPLUS
CN Boronic acid, [(4,6,10,12,16,18,22,24-octahydroxypentacyclo[19.3.1.13,7.19,13.115,19]octacosa-1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-dodecaene-2,8,14,20-tetrayl)tetra-4,1-phenylene]tetrakis-, stereoisomer (9CI) (CA INDEX NAME)



L5 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:428850 CAPLUS
DOCUMENT NUMBER: 137:6006
TITLE: Preparation of Calixarenes as Anti-viral compounds
INVENTOR(S): Harris, Stephen J.
PATENT ASSIGNEE(S): Aids Care Pharma Limited, Ire.
SOURCE: PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002044121	A1	20020606	WO 2001-IE150	20011130 <--
W: AE, AG, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002020992	A5	20020611	AU 2002-20992	20011130 <--
EP 1345884	A1	20030924	EP 2001-998526	20011130
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

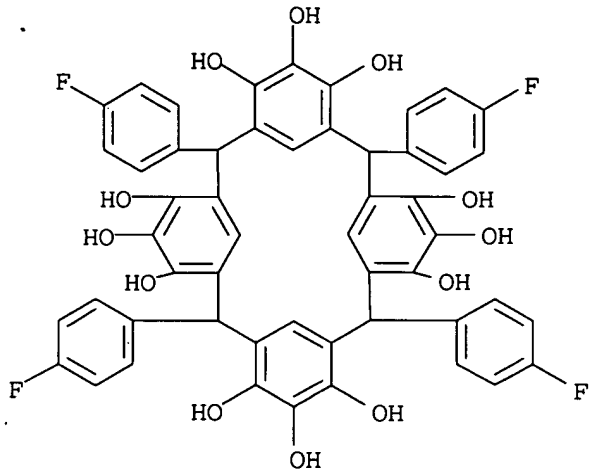
PRIORITY APPLN. INFO.: IE 2000-983 A 20001201
WO 2001-IE150 W 20011130
OTHER SOURCE(S): CASREACT 137:6006; MARPAT 137:6006
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [R1 = OCH2CO2K, OCH2CO2H or OCH2CONH2; R2 = R1 or NO2; R3 = H, 2-HO2CCH2OC6H4, or 4-XC6H4 where X = **halo** (preferably F or Br); R4 = H or **halo** (preferably Br)] are prepared and disclosed as antiviral agents. Thus, II was prepared in four steps via cyclocondensation 4-**fluorobenzaldehyde** with pyrogallol and subsequent bromination, O-alkylation with Et bromoacetate and hydrolysis with KOH. II possessed a therapeutic index (TC50/EC50 μm) of 4,000. I were found to have an additive effect when administered with AZT, and therefore, the compds. are useful as pharmaceutical compns. in the treatment of AIDS.

IT **433334-86-2P 433334-87-3P 433334-88-4P**
433334-89-5P 433334-90-8P 433334-94-2P
433334-95-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediates; preparation and antiviral activity of calixarenes as anti-AIDS agents)

RN 433334-86-2 CAPLUS
CN Pentacyclo[19.3.1.13,7.19,13.115,19]octacosa-1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-dodecaene-4,5,6,10,11,12,16,17,18,22,23,24-dodecol, 2,8,14,20-tetrakis(4-fluorophenyl)- (9CI) (CA INDEX NAME)


OH
HO
OH
F
F
HO
OH
HO
OH
HO
OH
F
F
HO
OH
OH

L5 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:722687 CAPLUS
DOCUMENT NUMBER: 131:318951
TITLE: Controlled-release microbicidal compositions
INVENTOR(S): Ghosh, Tirthankar
PATENT ASSIGNEE(S): Rohm and Haas Company, USA
SOURCE: Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

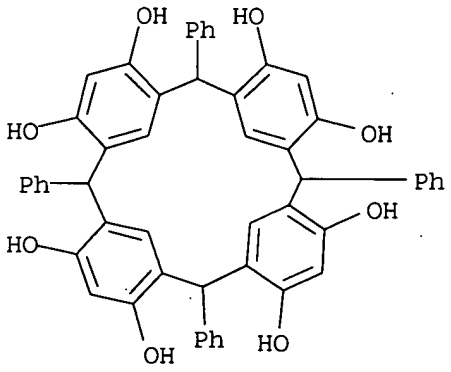
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 954965	A1	19991110	EP 1999-303343	19990428 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
AU 9923924	A1	19991111	AU 1999-23924	19990422 <--
SG 72947	A1	20000523	SG 1999-1981	19990429 <--
NO 9902098	A	19991108	NO 1999-2098	19990430 <--
CN 1234178	A	19991110	CN 1999-105298	19990430 <--
BR 9901414	A	20010313	BR 1999-1414	19990504 <--
JP 2000001403	A2	20000107	JP 1999-125926	19990506 <--

PRIORITY APPLN. INFO.: US 1998-84221P P 19980505
OTHER SOURCE(S): MARPAT 131:318951

AB Thus title compns. comprise a microbicide, such as an isothiazolone derivative and a calixarene compound Applications include microbiol. control in cooling towers, air washers, mineral slurries, paper manufacture, adhesives, caulks, mastics, sealants, cosmetics, leather, wood, plastics, etc., as well as use as marine antifouling compns.

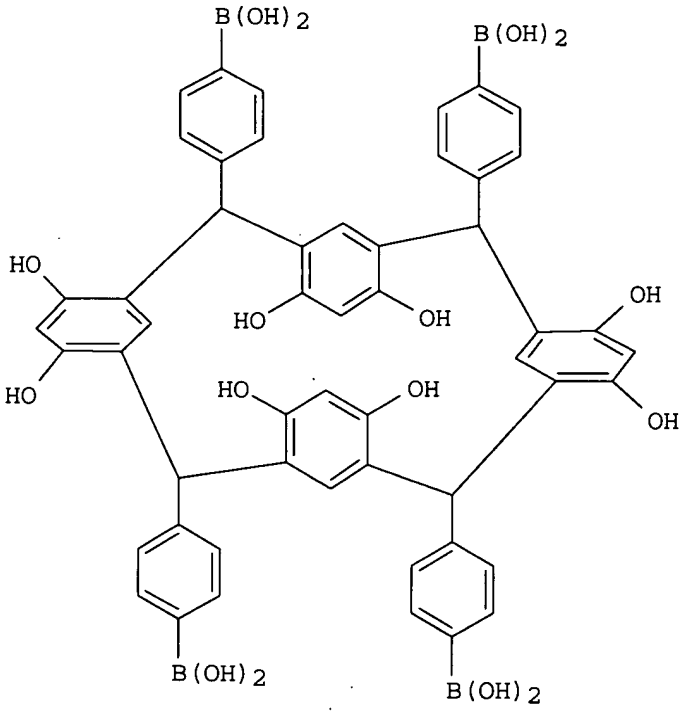
IT **129831-85-2**
RL: MOA (Modifier or additive use); USES (Uses)
(formulation ingredient in controlled-release microbicidal compns.)

RN 129831-85-2 CAPLUS
CN Pentacyclo[19.3.1.13,7.19,13.115,19]octacosa-1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-dodecaene-4,6,10,12,16,18,22,24-octol, 2,8,14,20-tetraphenyl- (9CI) (CA INDEX NAME)



RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:407878 CAPLUS
DOCUMENT NUMBER: 131:110650
TITLE: Simple and rapid visual sensing of saccharides
AUTHOR(S): Davis, Claude J.; Lewis, Patrick T.; McCarroll, Matthew E.; Read, Mark W.; Cueto, Rafael; Strongin, Robert M.
CORPORATE SOURCE: Department of Chemistry, Louisiana State University, Baton Rouge, LA, 70803, USA
SOURCE: Organic Letters (**1999**), 1(2), 331-334
CODEN: ORLEF7; ISSN: 1523-7060
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

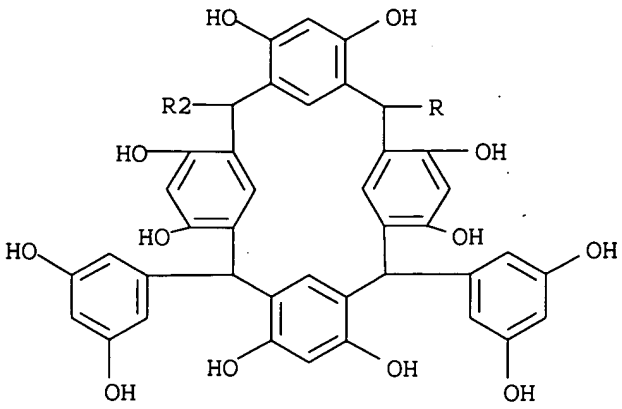


I

L5 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:407066 CAPLUS
DOCUMENT NUMBER: 131:88297
TITLE: Benzyl ether dendrimers and their intermediate calix[4]resorcinarene for manufacture of dendritic polymers
INVENTOR(S): Yamakawa, Yoshitaka; Ueda, Mitsuru; Asai, Michihiko; Takeuchi, Kazuhiko; Nagahata, Ritsuko
PATENT ASSIGNEE(S): Agency of Industrial Sciences and Technology, Japan; Zaidan Hojin Kagaku Gijitsu Senryakusuishin Kiko
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11171812	A2	19990629	JP 1997-356303	19971209 <--
PRIORITY APPLN. INFO.:			JP 1997-356303	19971209

OTHER SOURCE(S): MARPAT 131:88297
GI For diagram(s), see printed CA Issue.
AB The dendrimers I [R = (substituted) benzyloxy; R1 = H, (substituted) benzyloxy; R2-R4 = H, OH, **halo**, alkyl, aryl, aralkyl, alkaryl, alkoxy, alkenyl(oxy), acyl(oxy), alkoxycarbonyl, cyano, NO2, (substituted) benzyloxy; ≥1 of R2-R4 = (substituted) benzyloxy] and their intermediate I (R = R2 = R4 = OH, R1 = R3 = H) (II) are claimed. Thus, resorcinol was condensed with 3,5-dihydroxybenzaldehyde to give 48% II, which was benzylated by 3,5-diallyloxybenzyl bromide (III) in Me2CO in the presence of 18-crown-6 ether and K2CO3 under reflux for 48 h to give 79% I [R = R2 = R4 = CH2C6H3(OCH2CH:CH2)2-3,5, R1 = R3 = H]. The allyloxy group-containing dendrimer was deallylated and further benzylated with III.
IT **220803-32-7P 229492-15-3P**
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of calix[4]resorcinarene benzyl ether dendrimers)
RN 220803-32-7 CAPLUS
CN Pentacyclo[19.3.1.13,7.19,13.115,19]octacosa-1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-dodecaene-4,6,10,12,16,18,22,24-octol, 2,8,14,20-tetrakis(3,5-dihydroxyphenyl)- (9CI) (CA INDEX NAME)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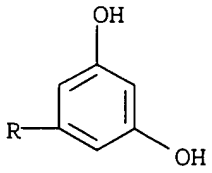
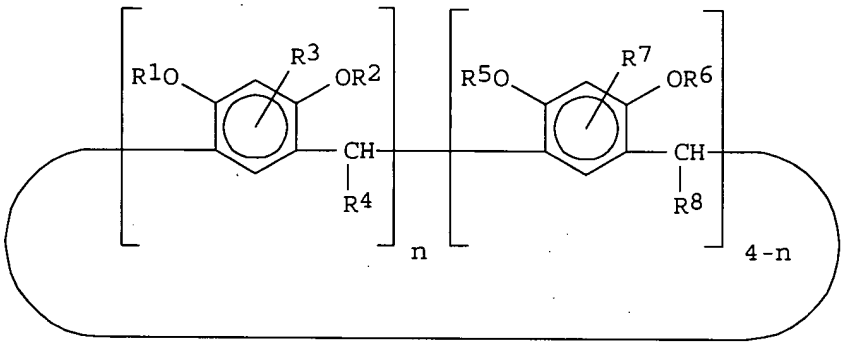
OH
R2
R
HO
OH
HO
OH
HO
OH
HO
OH
OH


OH
R
OH

L5 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1998:394118 CAPLUS
DOCUMENT NUMBER: 129:128942
TITLE: Toner for electrostatic latent image development
INVENTOR(S): Ueda, Hideaki; Furukawa, Keiichi
PATENT ASSIGNEE(S): Minolta Camera Co., Ltd., Peop. Rep. China
SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10161349	A2	19980619	JP 1996-316063	19961127 <--
PRIORITY APPLN. INFO.:			JP 1996-316063	19961127

GI



I

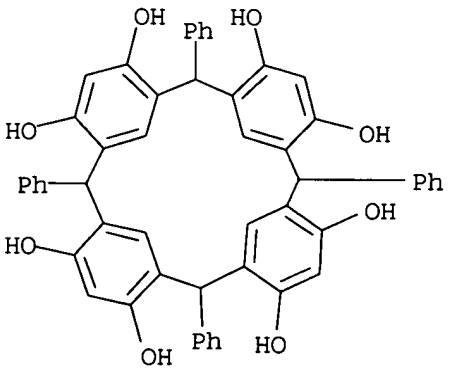
AB The title toner contains a resorcinol arene derivative I (R1, R2, R5, R6 = H, C1-5 alkyl, (CH2)mCO2R9; R9 = H, lower alkyl; m= 1-3; R1, R2, R5, and R6 cannot be H in the same time; R3, R7 = H, **halo**, alkoxy, carboxylnitro, alkyl, hydroxy; R4, R8 = alkyl, aryl, heterocyclyl; n = 1-4) as a charge controlling agent. The toner shows superior charge stability, resistance to heat and solvent, color reproducibilit

L5 ANSWER 13 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1998:80955 CAPLUS
DOCUMENT NUMBER: 128:197037
TITLE: Solubilization of organic compounds by calix[4]resorcinarenes bearing four hydrophobic chains
AUTHOR(S): Koide, Yoshifumi; Li, Bo; Kawaguchi, Yuichi; Shosenji, Hideto; Esumi, Kunio
CORPORATE SOURCE: Dep. Appl. Chem., Fac. Eng., Kumamoto Univ., Kumamoto, 860, Japan
SOURCE: Nihon Yukagakkaishi (**1998**), 47(1), 57-63
CODEN: NIYUFC; ISSN: 1341-8327
PUBLISHER: Nihon Yukagaku Gakkai
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

AB Calix[4]resorcinarenes each bearing four hydrophobic side chains ([4]Ar-Rn:tetraalkyl side chains [4]Ar-Ph: tetra-Ph side chains, and [4]Ar-N: tetranaphthyl side chains) were examined as solubilizing agents. [4]Ar-Rn, [4]Ar-Ph, and [4]Ar-N showed stable orientation at the surface or interface and high solubilization capacity was also noted for organic compds. such as hexyl alc., benzene, and toluene. Solubilization capacity was high near cmc, and aromatic compound solubility decreased in proportion to compound mol. size. [4]Ar-R6 bearing tetra hexyl chains was the most efficient solubilizer in [4]Ar-Rn, [4]Ar-Ph, and [4]Ar-N ; 11-fold molar hexanol could be dissolved in 2 + 10-3 M [4]Ar-R6. Long-alkyl chain alc. was highly solubilized with [4]Ar-Rn of the same chain length. The high solubilization may be considered due to microemulsion formation based on the orientation of [4]Ar-Rn at the compound-H2O interface. Dyes could also be dissolved in [4]Ar-Rn solution by inclusion.

IT **129831-85-2 203714-15-2**
RL: PEP (Physical, engineering or chemical process); PROC (Process)
(solubilization of organic compds. by calix[4]resorcinarenes bearing four hydrophobic chains)

RN 129831-85-2 CAPLUS
CN Pentacyclo[19.3.1.13,7.19,13.115,19]octacosa-1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-dodecaene-4,6,10,12,16,18,22,24-octol, 2,8,14,20-tetraphenyl- (9CI) (CA INDEX NAME)



L5 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:994163 CAPLUS
DOCUMENT NUMBER: 124:55584
TITLE: Preparation of calixarene-based compounds having antibacterial, antifungal, anticancer, and anti-HIV activity
INVENTOR(S): Harris, Stephen J.
PATENT ASSIGNEE(S): Ire.
SOURCE: PCT Int. Appl., 148 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9519974	A2	19950727	WO 1995-IE8	19950124 <--
WO 9519974	A3	19950921		
W: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, FI, GB, HU, JP, KP, LU, NO, RO, UA, US				
RW: AT, BE, CH, DE, ES, FR, GB, GR, IE, LU, NL, SE, GA, ML, NE, SN, TD, TG				
AU 9515453	A1	19950808	AU 1995-15453	19950124 <--

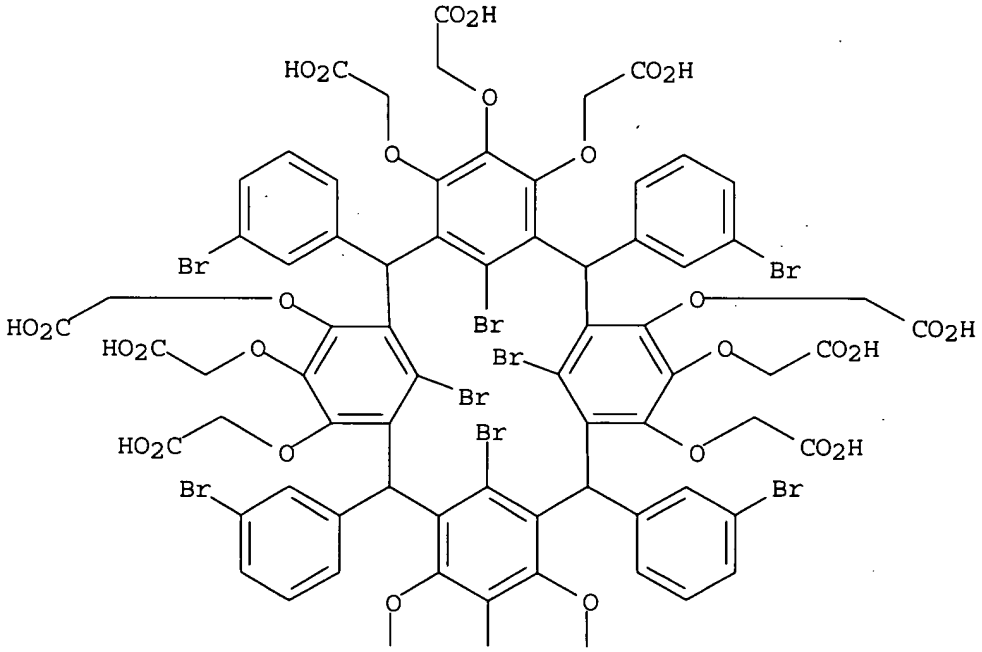
PRIORITY APPLN. INFO.: IE 1994-57 A 19940124
WO 1995-IE8 A 19950124
OTHER SOURCE(S): MARPAT 124:55584
GI For diagram(s), see printed CA Issue.
AB Calixarene-based compds., which are calixarenes or oxacalixarenes, acyclic phenyl-formaldehyde oligomers, cyclotriveratrylene derivs., cyclic tetrameric resorcinol-aldehyde derivs. known as Hogberg compds. and cyclic tetrameric pyrogallol-aldehyde derivs., are prepared For example, calixarenes or oxacalixarenes are represented by general formula [I; n + m = 3-8; m = 0-3; n = 0-8; R1 = H, **halo**, hydrocarbyl, aryl, (un)substituted hydrocarbylaryl, NO2, SO3M1; wherein M1 = alkali metal, SO3H; R1 = OR2; wherein R2 = CH2CO2R3, CH2CO2Mp/p, CH2CONR4R5; wherein R3 = (un)substituted alkyl; M = metal, ammonium ion; p = the charge on the metal ion; R4 or R5 may be the same or different, or both may be part of amino acid ester of poly(amino acid ester) or one or more of the same or different amino acids or part of a cyclic polyene antibiotic/antifungal drug or part of a cyclic nitrogen heterocycle; X = **halo**, NO2, CO2H, cyano, other electron withdrawing group]. Thus, n-butyraldehyde and pyrogallol in a 1:4 mixture of 37% aqueous HCl and EtOH was refluxed under N for 90 min to give a cyclic tetramer (II; R = X = H), which was brominated with Br in CHCl3 to II (R = H, X = Br) and etherified with Et bromoacetate in the presence of K2CO3 in refluxing acetone to give II (R = CH2CO2Et, X = Br). The latter compound was saponified with KOH in refluxing EtOH , acidified with aqueous HCl, and treated with 25% aqueous NH4OH to give II (R = CH2CO2-NH4+, X = Br). The latter compound in vitro inhibited the infection of C8166 cells with HIV-2, SIV (Simian immunodeficiency virus), and HIV-1 with EC50 of 10, 20, and 0.03 μM.
IT **171799-59-0P 171799-60-3P 171799-61-4P**
171799-62-5P 171799-63-6P 171799-64-7P
171799-65-8P 171799-66-9P 171799-67-0P
171799-68-1P 171799-69-2P 171799-70-5P
171799-71-6P 171799-72-7P 171799-73-8P
171799-74-9P 171799-75-0P 171799-76-1P
171799-77-2P 171799-78-3P 171799-79-4P
171799-80-7P 171799-81-8P 171799-82-9P
171799-83-0P 171799-84-1P 171799-85-2P

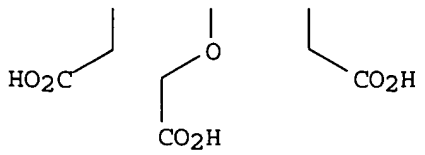
171799-86-3P 171799-87-4P 171799-88-5P
171799-89-6P 171799-90-9P 171799-91-0P
171799-92-1P 171799-93-2P 171799-94-3P
171799-95-4P 171799-96-5P 171799-97-6P
171799-98-7P 171799-99-8P 171800-00-3P
171800-01-4P 171800-02-5P 171800-03-6P
171800-04-7P 171800-05-8P 171800-06-9P
171800-07-0P 171800-08-1P 171800-09-2P
171800-10-5P 171800-11-6P 171800-12-7P
171800-13-8P 171800-14-9P 171800-21-8P
171800-26-3P 171800-67-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of calixarene-based compds. having antibacterial, antifungal, anticancer, and anti-HIV activity)

RN 171799-59-0 CAPLUS

CN Acetic acid, 2,2',2'',2''',2'''',2''''',2'''''',2''''''',2'''''''',2''''''''',2'''''''''',2''''''''''-[[25,26,27,28-tetrabromo-2,8,14,20-tetrakis(3-bromophenyl)pentacyclo[19.3.1.13,7.19,13.115,19]octacosa-1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-dodecaene-4,5,6,10,11,12,16,17,18,22,23,24-dodecayl]dodecakis(oxy)]dodecakis-, dodecapotassium salt (9CI) (CA INDEX NAME)

PAGE 1-A





●12 K

L5 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:947266 CAPLUS
DOCUMENT NUMBER: 124:101807
TITLE: Triboelectric material for positively charging electrophotographic toner
INVENTOR(S): Iwasa, Keiko; Mukushiro, Osamu; Matsura, Juji
PATENT ASSIGNEE(S): Hodogaya Chemical Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07234547	A2	19950905	JP 1994-47924	19940223 <--
PRIORITY APPLN. INFO.:			JP 1994-47924	19940223

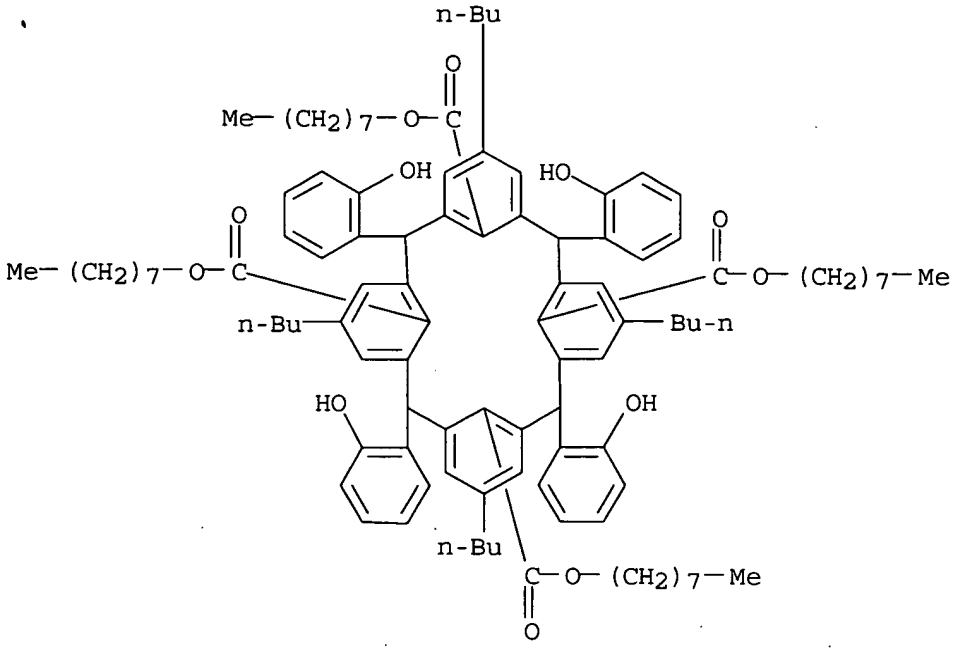
OTHER SOURCE(S): MARPAT 124:101807
GI For diagram(s), see printed CA Issue.
AB The triboelec. material contains a calixarene derivative I or II (R1 = H, C1-12 alkyl, Ph, acyl, (CH2)mCO2R4; R2, R7 = H, C1-12 alkyl, OH, C1-8 alkoxy, NH2, C1-8 alkylamino, **halo**, Ph, NO2, SO3H, C1-8 sulfonyl, CO2H, ester, acyl, Me3Si, nitril; R3, R8 = H, C1-12 alkyl, Q, N- or O-containing heterocyclic group; n = 4-8; R4 = H, alkyl; m = 1-3; R5 = H, C1-8 alkyl, OH, C1-8 alkoxy, **halo**, NO2, NH2, alkylamino, carbamoyl, CO2H, C1-8 ester, acyl; l = 1-5; R6 = H, C1-8 alkyl) as a charge-controlling agent at least on the part of the surface. The material showed good repeating durability.
IT **172464-59-4**
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(triboelec. material containing calixarene charge-controlling agent for pos. charging electrophotog. toner with good repeating durability)
RN 172464-59-4 CAPLUS
CN Pentacyclo[19.3.1.13,7.19,13.115,19]octacosa-1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-dodecaene-25,26,27,28-tetracarboxylic acid, 5,11,17,23-tetrabutyl-2,8,14,20-tetrakis[4-(ethoxycarbonyl)phenyl]- (9CI) (CA INDEX NAME)

L5 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:947265 CAPLUS
DOCUMENT NUMBER: 124:101806
TITLE: Electrostatographic developer toner containing calixarene derivative as charge-controlling agent
INVENTOR(S): Iwasa, Keiko; Mukushiro, Osamu; Matsura, Juji
PATENT ASSIGNEE(S): Hodogaya Chemical Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07234544	A2	19950905	JP 1994-47923	19940223 <--
JP 3313871	B2	20020812		

PRIORITY APPLN. INFO.: JP 1994-47923 19940223
OTHER SOURCE(S): MARPAT 124:101806
GI For diagram(s), see printed CA Issue.
AB The toner contains a calixarene derivative I (R1 = H, C1-12 alkyl, OH, C1-8 alkoxy, amino, C1-8 alkylamino, Ph; R2 = C4-12 alkyl, Q; R3 = H, C1-8 alkyl, OH, C1-8 alkoxy, **halo**, nitro, amino, carbamoyl, alkylamino, carboxy, C1-8 ester, acetyl; m = 1-5) or II (R4 = H, C1-8 alkyl; R5 = H, C1-12 alkyl, Ph, C1-8 alkoxy, amino, C1-8 alkylamino; R6 = H, alkyl, Q). The toner showed good storage stability, and gave low stains.
IT **172464-59-4 172464-60-7**
RL: TEM (Technical or engineered material use); USES (Uses)
(electrostatog. developer toner containing calixarene derivative charge-controlling agent)
RN 172464-59-4 CAPLUS
CN Pentacyclo[19.3.1.13,7.19,13.115,19]octacosa-1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-dodecaene-25,26,27,28-tetracarboxylic acid, 5,11,17,23-tetrabutyl-2,8,14,20-tetrakis[4-(ethoxycarbonyl)phenyl]- (9CI) (CA INDEX NAME)

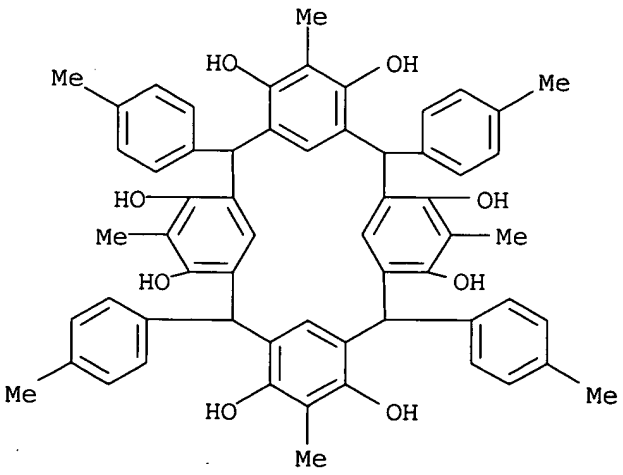
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 172464-60-7 CAPLUS
CN Pentacyclo[19.3.1.13,7.19,13.115,19]octacosa-1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-dodecaene-25,26,27,28-tetracarboxylic acid, 5,11,17,23-tetrabutyl-2,8,14,20-tetrakis(2-hydroxyphenyl)-, tetraoctyl ester (9CI) (CA INDEX NAME)


n-Bu
O
Me— (CH2) 7— O— C
OH
HO
O
Me— (CH2) 7— O— C
O
C— O— (CH2) 7— Me
n-Bu
Bu-n
HO
OH
n-Bu
C— O— (CH2) 7— Me
O

L5 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:828347 CAPLUS
DOCUMENT NUMBER: 123:241910
TITLE: Friction charge-providing member for positively-chargeable toner.
INVENTOR(S): Mukudai, Osamu; Matsuura, Yuuji; Niimura, Isao; Watanabe, Kayoko; Iwasa, Keiko
PATENT ASSIGNEE(S): Hodogaya Chemical Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 22 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 655658	A2	19950531	EP 1994-105509	19940408 <--
EP 655658	A3	19960703		
R: DE, FR, GB				
JP 07128916	A2	19950519	JP 1993-293798	19931101 <--
JP 08262871	A2	19961011	JP 1994-93926	19940408 <--

PRIORITY APPLN. INFO.: JP 1993-293798 A 19931101
OTHER SOURCE(S): MARPAT 123:241910
GI For diagram(s), see printed CA Issue.
AB A friction charge-providing member for pos.-chargeable toner comprises a parent material and a charge-controlling agent on the surface selected from I and II [A and B = H, **halogen**, alkoxyl, carboxyl, hydroxyl, ester, nitro, amino, alkylamino, alkyl which may contain a substituent(s) or a Ph group which may contain a substituent(s); R = H, alkyl or Ph or naphthyl group which may contain a substituent(s); m = an integer 2 to 16; and n = an integer 4 to 8]. The toner provides improved charging stability.
IT **168405-65-0**
RL: TEM (Technical or engineered material use); USES (Uses)
(charge-controlling agent for electrostatog. toner)
RN 168405-65-0 CAPLUS
CN Pentacyclo[19.3.1.13,7.19,13.115,19]octacosa-1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-dodecaene-4,6,10,12,16,18,22,24-octol, 5,11,17,23-tetramethyl-2,8,14,20-tetrakis(4-methylphenyl)- (9CI) (CA INDEX NAME)



L5 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:794919 CAPLUS
DOCUMENT NUMBER: 123:325712
TITLE: Electrostatic image developing toner.
INVENTOR(S): Mukudai, Osamu; Matsuura, Yuuji; Niimura, Isao; Watanabe, Kayoko; Isawa, Keito
PATENT ASSIGNEE(S): Hodogaya Chemical Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 22 pp
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 651294	A1	19950503	EP 1994-105508	19940408 <--
EP 651294	B1	19980708		
R: DE, FR, GB				
JP 07175269	A2	19950714	JP 1994-93927	19940408 <--
US 5679489	A	19971021	US 1996-620150	19960322 <--

PRIORITY APPLN. INFO.: JP 1993-293799 A 19931101
US 1994-224523 B1 19940407

OTHER SOURCE(S): MARPAT 123:325712

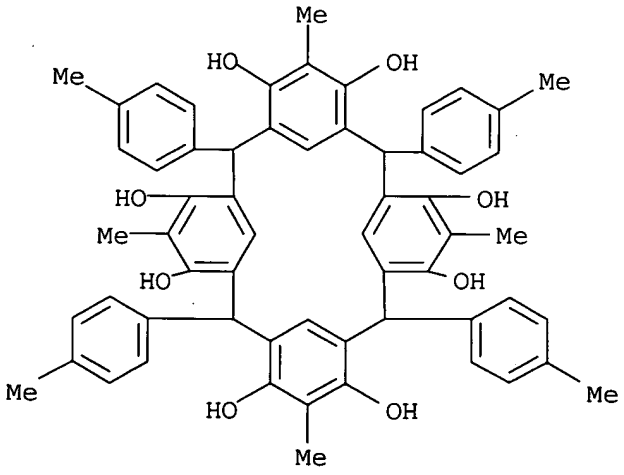
GI For diagram(s), see printed CA Issue.

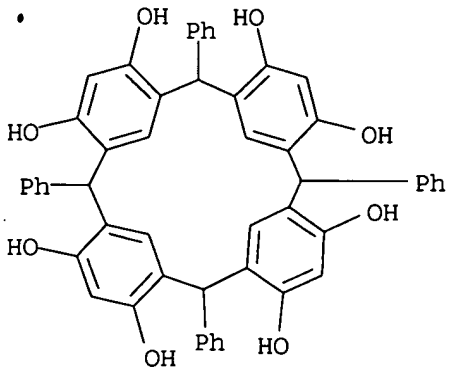
AB An electrophotog. toner free of metal such as Cr comprises ≥1 charge-controlling agent selected from I and II [A, B = H, **halogen**, alkoxy carboxyl, OH, ester, nitro, amino, alkylamino, alkyl, Ph; R = H, alkyl, Ph, naphthyl; m = 2-16; n = 4-8]. The toner shows no deterioration during preparation, excellent stability, excellent dispersibility in binder resin, and excellent friction chargeability.

IT **168405-65-0**
RL: MOA (Modifier or additive use); USES (Uses)
(charge-controlling agent for electrophotog. toners)

RN 168405-65-0 CAPLUS

CN Pentacyclo[19.3.1.13,7.19,13.115,19]octacosa-1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-dodecaene-4,6,10,12,16,18,22,24-octol, 5,11,17,23-tetramethyl-2,8,14,20-tetrakis(4-methylphenyl)- (9CI) (CA INDEX NAME)




OH
Ph
HO
HO
OH
Ph
Ph
OH
HO
OH
Ph
HO

L5 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1992:613749 CAPLUS
DOCUMENT NUMBER: 117:213749
TITLE: Epoxy resins based on macrocyclic calixarenes
INVENTOR(S): Morton, Trevor Charles; Hodgkin, Jonathan Howard; Dao Buu Nguyen
PATENT ASSIGNEE(S): Commonwealth Scientific and Industrial Research Organisation, Australia
SOURCE: PCT Int. Appl., 33 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE	
WO 9206128	A1	19920416	WO 1991-AU455		19911003	<--
W: AU, CA, JP, KR, US						
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE						
CA 2093326	AA	19920404	CA 1991-2093326		19911003	<--
AU 9186540	A1	19920428	AU 1991-86540		19911003	<--
AU 648350	B2	19940421				
JP 06501971	T2	19940303	JP 1991-516194		19911003	<--
EP 591200	A1	19940413	EP 1991-917527		19911003	<--
EP 591200	B1	19980506				
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE						
AT 165852	E	19980515	AT 1991-917527		19911003	<--
US 5439989	A	19950808	US 1993-30303		19930503	<--
PRIORITY APPLN. INFO.:			AU 1990-2610	A	19901003	
			AU 1990-3871	A	19901212	
			WO 1991-AU455	A	19911003	

GI For diagram(s), see printed CA Issue.

AB Title compds. comprise ≥1 compound I [n = 3-10 integer; R1, R3 = independently H, OH, alkoxy, allyloxy, glycidyloxy; R2 = H, (**halo**)aralkyl, (**halo**)alkyl, (**halo**)aryl; R4 = H, (**halo**)alkyl, (alkyl)- or (**halo**)aralkyl, (**halo**)aryl; R5 = H, aryl, alkyl; and each I contains ≥1 epoxy group]. Curable and fiber impregnating compns. are claimed and have high glass temps. and optional toughenners. Thus, a mixture of C-methylcalix[4]resorcinarene, iso-PrOH and MeOH was epoxidized at 50°, treated with methanolic NaOH, mixed with 4,4'-diaminodiphenyl sulfone, Hycar 1300X13 added (15%), the mixture degassed in vacuo, BF3.EtNH2 catalyst added, and the mixture poured into a mold and cured at 100-180° to show glass temperature 285° and fracture toughness 0.68 MPa-m0.5.

IT **129831-85-2DP**, epoxidized
RL: PEP (Physical, engineering or chemical process); PREP (Preparation); PROC (Process)
(preparation and curing of, for fracture toughness)

RN 129831-85-2 CAPLUS

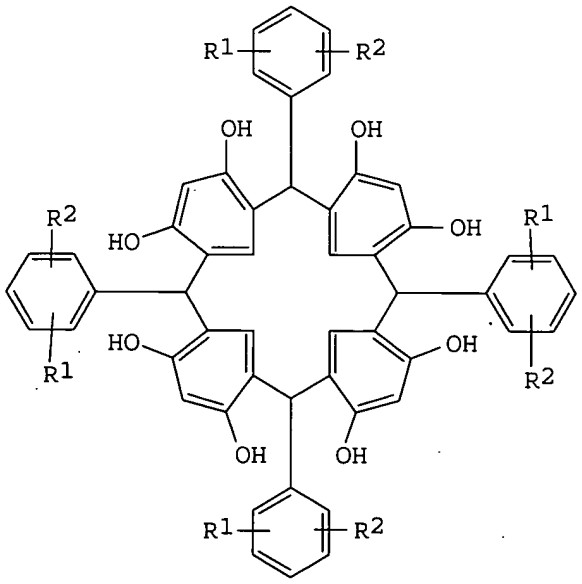
CN Pentacyclo[19.3.1.13,7.19,13.115,19]octacosa-1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-dodecaene-4,6,10,12,16,18,22,24-octol, 2,8,14,20-tetraphenyl- (9CI) (CA INDEX NAME)

L5 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1990:236060 CAPLUS
DOCUMENT NUMBER: 112:236060
TITLE: Flame-proof polycarbonates containing units deriving from **halogenated** macrocyclic compounds
INVENTOR(S): Petri, Alberto
PATENT ASSIGNEE(S): Enichem Tecnoresine S.p.A., Italy
SOURCE: Eur. Pat. Appl., 13 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 350092	A2	19900110	EP 1989-201660	19890623 <--
EP 350092	A3	19910703		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
US 4987269	A	19910122	US 1989-371513	19890626 <--
ZA 8904910	A	19900328	ZA 1989-4910	19890628 <--
CA 1330095	A1	19940607	CA 1989-604652	19890704 <--
NO 8902797	A	19900109	NO 1989-2797	19890706 <--
NO 174812	B	19940405		
NO 174812	C	19940713		
DK 8903370	A	19900109	DK 1989-3370	19890707 <--
JP 02067316	A2	19900307	JP 1989-174345	19890707 <--
US 5089595	A	19920218	US 1990-573875	19900828 <--

PRIORITY APPLN. INFO.: IT 1988-21284 A 19880708
US 1989-371513 A3 19890626

GI



I

AB The title polymers contain the units derived from a bisphenol and a macrocyclic compound (I) (R1 = H, OH, Br, Cl; R2 = Cl, Br). Thus, dissolving bisphenol A 84, I (R1 = H, R2 = p-Cl, prepared by condensation of resorcinol with p-chlorobenzaldehyde) 1.37, NaOH 65.2, and Na2S2O6 0.02 g

in 650 mL H2O, adding 6.3 mL 0.5 N aqueous NEt3 solution and 1.7 g p-tert-butylphenol in 1.3 L CH2Cl2, bubbling 44 g COCl2 over 30 min, and stirring for 2 h gave a polymer having UL 94 test value V-O.

IT **127261-94-3P 127335-23-3P 127335-25-5P**
RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation and polymerization of)

RN 127261-94-3 CAPLUS

CN Pentacyclo[19.3.1.13,7.19,13.115,19]octacosa-1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-dodecaen-4,6,10,12,16,18,22,24-octol, 2,8,14,20-tetrakis(5-bromo-2-hydroxyphenyl)- (9CI) (CA INDEX NAME)